## PROJECT DESCRIPTION

This Project involves the modification of the existing traffic control signal at the intersection of MD 165 and MD 136 in Harford County.

The modification involves adding exclusive/permissive left-turn phasing for northbound and southbound MD 165.

## INTERSECTION OPERATION

The intersection currently operates in a NEMA four phase, full-traffic actuated mode with the MD 165 through movements operating concurrently and the MD 136 through movements operating concurrently.

## EQUIPMENT TO BE FURNISHED BY SHA

9089 155 SF LEFT TURN YIELD ON GREEN SIGN, SPAN MOUNTED
R10-12 (36" X 42") - 2 EA
SHIELD ASSEMBLY SIGNS, POLE MOUNTED
MD 136 (48"X75") - 2 EA MD 152 (24"X51") - 2 EA
SHIELD ASSEMBLY SIGNS, POLE MOUNTED
MD 165 (48"X75") - 2 EA MD 165 (24"X51") - 2 EA

9000 1 EA RETROFIT DETECTOR RACK 9000 1 EA POWER SUPPLY

3 EA 4 CHANNEL AMPLIFIER

EQUIPMENT TO BE FURNISHED AND/OR TO BE INSTALLED BY THE CONTRACTOR

100000 1 EA MAINTENANCE OF TRAFFIC

1000 1 EA REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT PER ASSIGNMENT

800000 6 EA FURNISH AND INSTALL 8 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION - BLACK FACE

800000 32 EA FURNISH AND INSTALL 12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION - BLACK FACE

800000 1 EA FURNISH AND INSTALL 250 WATT HPS LUMINAIRE WITH PHOTOCELL

800000 1 EA FURNISH AND INSTALL 15' LIGHTING BRACKET ARM

800000 205 LF FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO.12 AWG)

869101 210 LF FURNISH AND INSTALL STEEL SPAN WIRE- 1/4INCH DIAMETER

805160 10 LF FURNISH AND INSTALL 1 IN. LIQUID-TIGHT FLEXIBLE NON-METALLIC ELECTRICAL CONDUIT

(DETECTOR WIRE SLEEVE)

813014 35.0 SF INSTALL GROUND MOUNTED SIGN

813015 134.0 SF INSTALL OVERHEAD SIGN 834001 2 EA FURNISH AND INSTALL CONNECTOR KIT- TYPE 1

834002 2 EA FURNISH AND INSTALL CONNECTOR KIT- TYPE 2

862101 865 LF FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBINBG (NO.14 AWG)

862102 240 LF FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)

861104 200 LF FURNISH AND INSTALL ELECTRICAL CABLE - 2 CONDUCTOR (NO.14 AWG) - ALUMINUM SHIELDED

861107 40 LF FURNISH AND INSTALL ELECTRICAL CABLE - 5 CONDUCTOR (NO.14 AWG)

861108 300 LF FURNISH AND INSTALL ELECTRICAL CABLE - 7 CONDUCTOR (NO.14 AWG)

NOTE: ALL REMOVED EQUIPMENT WILL BECOME THE PROPERTY OF THE CONTRACTOR

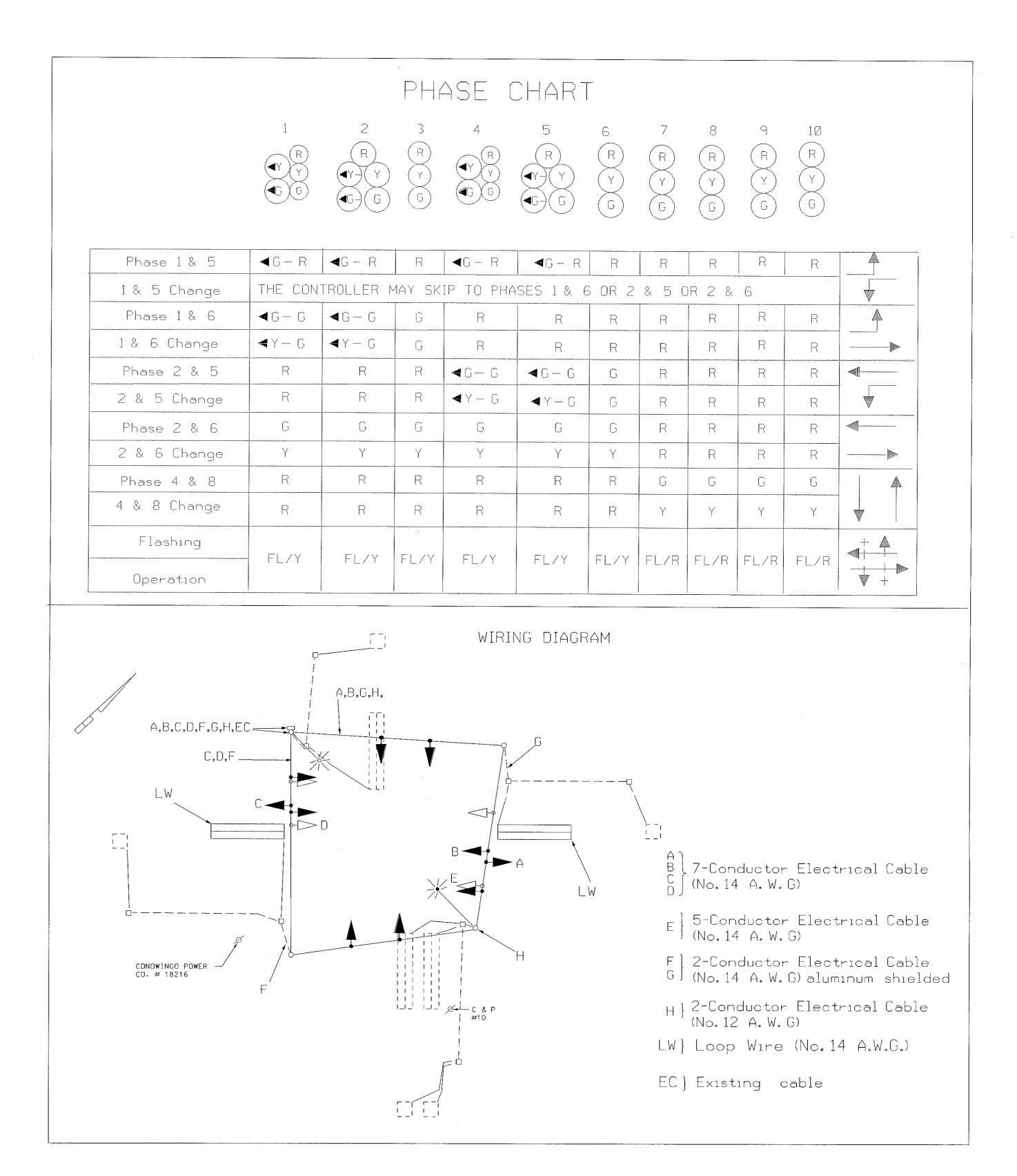
## CÖNTACT LIST

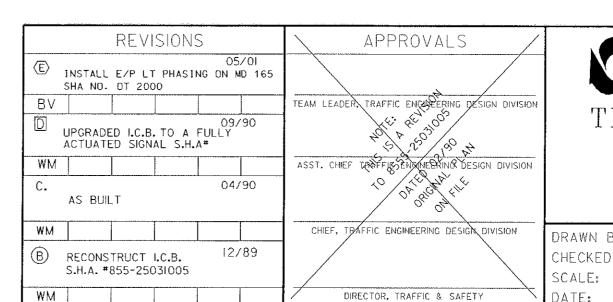
Mr. Dave Malkowskı, Dıstrcıt Engineer Phone: (410) 321-2761

Mr. Joseph McMahon, Assistant District Engineer-Utilities Phone: (410) 321-2841

Mr. Edward Rodenhizer, Chief SHA Traffic Signal Shop Phone: (410) 787-7650

Mr. Richard Daff SR., Chief Traffic Operations Division Phone: (410) 787-7630





MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

MD 165 @ MD 136

<u> </u>				
BY: W. MALCOLM	F.A.P. NO.	f.	TS NO.	
D BY:	S.H.A. NO.	2385472502861	2598-E	SHEET NO.
NOT TO SCALE	COUNTY:	HARFORD	T.I.M.S. NO.	
02/1990	LOG MILE:		E-604	<u>02</u> OF <u>02</u>